BTS 175 (F)

B.Tech. Degree VIII Semester (Supplementary) Examination in Safety and Fire Engineering October 2002

SE 802 ACCIDENT INVESTIGATION AND ANALYSIS

Time: 3 Hours Maximum Marks: 100

*(All Questions carry **EQUAL** marks)*

I. (a) Define the various models of accident prevention.
(b) Explain the strategic planning and process of implementation in safety management.

OR

II. (a) Describe the various factors involved in policy formation for effective planning of safety.
(b) " Some workers are said to be accident prones". How this could be reduced or stopped?

III (a) Describe the various environmental and behaviouristic causes of accidents and suggest the methods to eliminate them.
(b) What are the prime sources of accidents? What are the methods for preventing or minimising accidents in general?

OR

IV. (a) "Production and safety do not go together. You can have production only at the cost of Safety". Give your comment and discuss the above misconception on safety.
(b) What type of technical research you suggest to reduce human failings in industry?

V (a) What are the methods used for the presentation of data collected during an accident?
(b) Classify the accident data and enumerate the causes which lead to accidents in a factory. Suggest the means you will adopt to prevent the occurring of accidents.

OR

VI. (a) Why a formal dealing with witness is required in any accident?
(b) An electrician has been electrocuted while working on the overhead line in a factory. Write comprehensive report on the accident addressed to the works manager.

VII. (a) Define a report. Distinguish an informative report from an analytic report.
(b) A worker has lost one of his fingers while working on a drilling machine. Draft a report for submission to the concerned inspector of factories.

OR

VIII. (a) What are the qualities of a good report?
(b) Distinguish between routine and special reports. Discuss briefly the principles that should be applied in preparing special reports.

IX. (a) What is the use of accident analysis?
(b) How will you compute cost of accidents? Enumerate utility and limitations of cost data.

OR

X. (a) What are the various methods in projecting accident data? Describe the advantages and disadvantages of each method.
(b) What is a safety data sheet? State its applications.
(c) What inference we can draw from analysis of accident records?

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